

## ABSTRACT OF THE DISCLOSURE

A thin film interleaver device is disclosed. The thin film interleaver includes thin film optics. The thin film(s) are formed such that they reflect one group of wavelengths while allowing a second group of wavelengths to pass through the thin film(s). The thin film(s) exhibit a flat top frequency response across the channel bandwidths of the multiplexed signal for which the thin film filter is designed such that the thin film interleaver is less sensitive to wavelength drift and temperature variations.

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